

Correlation Using Only Selected Chip Position Samples  
In A Wireless Communication System

ABSTRACT OF THE DISCLOSURE

A method (70) of operating a wireless receiver (UST). The method receives a wireless communicated signal, wherein the signal comprises a first synchronization channel component. The method also correlates a synchronization channel value (PSC) to the signal to produce a plurality of correlation samples in response to a correlation between the synchronization channel value and the signal. Further, the method compares (72) the plurality of correlation samples to a threshold ( $\tau$ ) and stores as a first set of correlation samples selected ones of the plurality of correlation samples that exceed the threshold and are within a first time sample period, wherein each of the correlation samples in the first set has a corresponding sample time relative to the first time sample period. Finally, the method combines (74) a second set of correlation samples with the first set of correlation samples.

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